

Subscriber Networks

Explorer® 8240C™ and 8240HDC™ Digital-Only DVR with M-Card™ Interface

Description

The Explorer® 8240C™ Digital-Only Digital Video Recorder (DVR) will be an addition to the 8240C family. This dual-tuner DVR will have a Multi-Stream CableCARD™ (M-Card™) interface to operate as a separable security set-top.

Additionally, the Explorer 8240HDC™ Digital-Only DVR with an M-CARD interface will provide high-definition tuning, recording, and connection features.

These digital-only set-tops with the M-Card interface will help service providers meet the Federal Communications Commission's July 1, 2007, separable security mandate.



Features

Separable Security

- *M-Card Interface* will use a Multi-Stream CableCARD module to provide separable security in set-tops

OpenCable Network Support

- *Axiom™ DVR Middleware* will support OCAP™ Applications such as Service Navigators, Games, and many other future applications (optional software)
- *DSG (DOCSIS® Set-top Gateway)* will provide a powerful standard transport mechanism for command and control signaling between the set-top and service provider network (optional software)

Conventional Scientific Atlanta Network Support

- *SARA DVR Software* on a separable security set-top will support native navigator and user interface in a non-OCAP service provider network environment (optional software required)
- *DAVIC Receiver/Transmitter* will allow IP-based, real-time, two-way communication between the set-top and the service provider's network for services such as video-on-demand

DVR, HD, and SD Features

- *Dual-tuner DVR* will allow one program to be recorded while watching or recording another (software controlled)
- *Picture-in-Picture (PIP)* will allow viewing two separate video sources simultaneously (software controlled)
- *SD (MPEG-2) Tuning* will tune and decode standard-definition (SD) programs in MPEG-2 format
- *HD (MPEG-2) Tuning* will tune and decode high-definition (HD) programs in MPEG-2 format (8240HDC)
- *80 GB Internal Hard Drive* will store up to 50 hours of SD programs (8240C)
- *160 GB Internal Hard Drive* will store up to 90 hours of SD or 20 hours of HD programs (8240HDC)

Explorer 8240C and 8240HDC Digital-Only DVR with M-Card Interface

Front Panel



Note: Image is of the 8240HDC front panel. Image may vary from actual product and specification.

Front Panel—Standard	
Connections	USB 1.1 Host
Controls	IR Receiver, 10 Buttons: Power, List, Exit, Info, Guide, Vol+, Vol-, Ch+, Ch-, Select
Indicators	Power, Four 7-segment digits, Message, Record, HDTV, Auto, 1080i, 720p, 480p, 480i
Color	Silver paint, Black Lens, Black Buttons, Dark Grey Button Text
Branding	Scientific Atlanta, Model Number, Provision for Service Provider Branding

Back Panel



Note: Image is of the 8240HDC back panel. Image may vary from actual product and specification.

Rear Panel—Standard	
Connections—In	Cable In
Connections—Out	TV Cable Out, Video 1, L/R Audio 1, Video 2, L/R Audio 2, Coax Digital Audio, S-Video, IR, eSATA
Output Resolutions	720 x 480i 60 Hz
Separable Security	Multi-Stream CableCARD (M-Card) interface
Power Input	Polarized 2-prong modular cord plug, 115 VAC, 60 Hz
Power Output	Polarized 2-prong outlet, at input line voltage, software controlled
Labels	Serial Number, RF MAC Address, eCM MAC Address. M-Card Serial Number (if optional M-Card module is included), M-Card MAC Address (if optional M-Card module is included)
Rear Panel—Included on 8240HDC	
Connections—Out	YPbPr (or Video 1), Optical Digital Audio, HDMI™, Dual IEEE-1394 6-Pin
Output Resolutions	1920 x 1080i 60

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Specifications

Tuning and Decoding—Standard	
DVR	Dual Tuning, Dual Record, Dual Playback, Pause, Rewind, Fast-Forward, Record one while watching another, controlled by software
Tuning	Dual QAM 64 or 256, Inband 54 MHz to 860 MHz, Out-of-band 70 MHz to 130 MHz, PIP
Video Decoders	Dual MPEG-2 up to MP@ML (up to 720 x 480i 60 Hz), Video Scaling
Audio Decoders	Dual Dolby® Digital up to 5.1, Dual MPEG
Conditional Access	Separable security through the Multi-Stream CableCARD interface
Encoders	Audio BTSC for TV cable (RF) output
Graphics Engine	65,000 colors, 640x480 resolution, simultaneous scale MPEG-2 video
DAVIC	QPSK FDC 1.54 Mbps, QPSK RDC at 1.54 Mbps
DOCSIS	OOB and Interaction via DOCSIS 1.0, DOCSIS Set-Top Gateway, Baseline Privacy Interface, requires software option
Tuning and Decoding—Included on 8240HDC	
Video Decoders	Dual MPEG-2 up to MP@HL (includes 1920 x 1080i 60 Hz, 1920 x 1080p 30 Hz, 1920 x 1080p 24 Hz, 1280 x 720p 60 Hz, 720 x 480p 60 Hz)
Tuning and Decoding—Optional	
DAVIC	Dual QPSK

Memory/Storage	8240C DVR Model Options		8240HDC DVR Model Options	
CPU/Apps RAM	64 MB	128 MB*	64 MB	128 MB*
Video Graphics	16 MB	16 MB	32 MB	32 MB
Video Encoder	N/A	N/A	N/A	N/A
CPU Flash	2 MB	2 MB	2 MB	2 MB
CPU NVM	16 kB	16 kB	16 kB	16 kB
Hard Drive	80 GB	80 GB	160 GB	160 GB

*Axiom DVR Middleware for OCAP support is recommended only for the 8240C/HDC models that have 128 MB RAM.

Processors	
Application/CPU	Two 250 MHz 32-bit RISC Processors (500 MIPS total)

Dimensions	
Product (WxDxH)	15.6 in. x 11.2 in. x 3.25 in. (39.7 cm x 28.5 cm x 8.3 cm)
Product Weight	8.3 lbs (3.8 kg)
Carton (WxDxH)	18.0 in. x 14.0 in. x 6.12 in. (45.8 cm x 35.6 cm x 15.6 cm)
Total Weight	11.6 lbs (5.3 kg)

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Operating Conditions	
Placement	Locate with at least 2 inches of open space above and on each side
Room Temperature	32°F to 105°F (0°C to 40°C) during operation
Power Dissipation	40 W maximum

Accessories

Accessories—Standard		
In Carton	Power Cord, Connection Guide	
Accessories—Included with 8240HDC		
In Carton	YPbPr Component Video and L/R Audio Cable	
Accessories—Optional		Part Number
Sold Separately	Axiom DVR Middleware License*	4014594
	SARA DVR Software License	752351
	Multi-Stream CableCARD PMK802	4014733
	AllTouch® AT8550™ Remote Control	4006369
	AllTouch AT8560™ Remote Control	4016237
	HDMI to HDMI Cable	1002048
	HDMI to DVI Cable	1002056
	YPbPr and L/R Cable Set (additional or replacement)	1000944
	RGB adapter and cables	749790
	IR Extender—12 ft	1001807
	IR Extender—25 ft	4006725

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Ordering Information

Contact your Sales Representative for product availability in your area.

Model	Description	Part Number Set-Top Only	Part Number Set-Top with PowerKEY® M-Card Module
8240C DVR	Explorer 8240C, SD Digital-Only DVR with 80 GB HDD, 64 MB RAM, DOCSIS, and M-Card Interface	4015536	4016479
8240C DVR	Explorer 8240C, SD Digital-Only DVR with 80 GB HDD, 128 MB RAM, DOCSIS, and M-Card Interface	4015533	4016482
8240C DVR	Explorer 8240C, SD Digital-Only DVR with 80 GB HDD, 128 MB RAM, DOCSIS, Dual QPSK, and M-Card Interface	4017636	N/A
8240HDC DVR	Explorer 8240HDC, HD Digital-Only DVR with 160 GB HDD, 64 MB RAM, HD Outputs, DOCSIS, and M-Card Interface	4015530	4016473
8240HDC DVR	Explorer 8240HDC, HD Digital-Only DVR with 160 GB HDD, 128 MB RAM, HD Outputs, DOCSIS, and M-Card Interface	4015527	4016476
8240HDC DVR	Explorer 8240HDC, HD Digital-Only DVR with 160 GB HDD, 128 MB RAM, HD Outputs, DOCSIS, Dual QPSK, and M-Card Interface	4017637	N/A

Note: DOCSIS models have both DAVIC and DOCSIS out-of-band capability; DOCSIS-capable software is required for DOCSIS operation.



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